

Remarks

Supplemental IDS

Please find attached a Supplemental IDS to three articles, one of which (*Burkhardt et al.* in PLASTICS TECHNOLOGY (1995)) includes an English language translation.

Copy of Translation and Remarks

The Applicant herein submits another copy of the English translation of JP 10-330412 (*Sugimura et al.*) to ensure that a copy of the translation is received by the Examiner.

Applicant agrees with the Examiner's reasons for allowability with respect to *Canich* and *Schrock*. Further, even in light of the general disclosure of *Sugimura*, Applicant has unexpectedly found that a certain class of catalyst compounds used in combination with another catalyst compound is highly capable of producing polyethylene copolymers—preferably bimodal polymers and/or polymers having an M_w/M_n of at least about 15 in certain embodiments—with high activity as indicated in Table 1 both by the measure of activity and low residue in the polymer produced. Producing such polymers is known to have difficulties, such as described for example by *Burkhardt et al.* in PLASTICS TECHNOLOGY (1995). Given the unpredictable nature in the catalyst arts, the overcoming of the known difficulties in the present invention is unexpected. Thus, in addition to the allowability of the original claims, the Applicant contends that the additional claims to distinct embodiments are also allowable over the art of record.

Double Patenting

The Applicant herein submits in a separate document a Terminal Disclaimer to US 6,274,684. It should be noted that Applicant here also disclaims U.S. Patent 6,271,323.

New Claims

Claims 20-26 are added, the subject matter being derived from the specification as filed at, for example, pp. 22-23 at paragraphs [0096] to [0104]. No new matter is believed to be added.

Also, new claims 27 through 68 are added, these claims derived from the specification and original claims as filed. No new matter is believed to be added.

In Claim 27, “at least one polymerization reactor” is supported at, for example, paragraph [0091] at page 21, and further from US 5,677,375 and EP-A-0 794 200, incorporated by reference at paragraph [0113], describing “stages reactors” or “series” reactors.

The subject matter of claims 38 and 59 are derived from the specification as filed at, for example, page 32, paragraphs [0142] to [0144].

The subject matter of claims 46 and 67 are derived from the specification as filed at, for example, page 48, paragraphs [0184].

Other claim amendments

Claim 1 and 2 is amended to conform the language to that used first in claim 1, and in the specification as filed (~~system~~ and ~~component~~ to –compound–).


Claim 1 is further amended by adding the term “relative” so that the claim now reads: “altering the relative amounts of the first catalyst compound and the second catalyst compound”. This reflects the embodiments in the specification as filed, for instance, by combining “1” and “2” at page 28, paragraph [0125], also paragraph [0101], and throughout the specification as filed. No new matter is believed to be added.

Application No. 10/632,295
Docket No. 1999U026.US-CON
Reply to Office Action Dated July 15, 2004

It is submitted that the case is in condition for allowance. The Applicant invites the Examiner to telephone the undersigned attorney if there are any other issues outstanding which have not been presented to the Examiner's satisfaction.

July 29, 2004
Date

Respectfully submitted,



Kevin M. Faulkner
Attorney for Applicants
Registration No. 45,427

Univation Technologies, LLC
5555 San Felipe, Suite 1950
Houston, Texas 77056-2723
Phone: 713-892-3729
Fax: 713-892-3687